

B. AMENDMENTS TO THE CLAIMS

1(Currently Amended). A method of managing from a client station a target object at a remote station via a telecommunications network, said method comprising the steps of:

DI (a) generating a client object forming a representation of said target object, which client object is configured to identify-extract methods of said target object which are remotely accessible and support manipulation of properties of said target object, said client object being further configured to implement said remotely accessible methods;

(b) registering said target object and a network adaptor for a network protocol with a framework at said remote station;

(c) associating said client object with a network adaptor for said network protocol at said client machine; and

(d) enabling a client application to access said methods which support remote manipulation by instantiating said client object.

2(Previously Amended). The method of Claim 1, wherein step (a) comprises compiling said target object to generate said client object, said client object comprising a target object interface identifying said remotely accessible methods of said target object and said client object further comprising a target object stub implementing said remotely accessible methods.


3(Original). The method of Claim 2, wherein step (d) comprises selectively replacing said target object stub for dynamically modifying the behaviour of said client application at runtime.

4(Original). The method of Claim 1, wherein said client object and said target object are beans, each of which comprises a set of properties, a set of methods for performing actions, and support for events and for introspection.

5(Original). The method of Claim 1, wherein step (a) comprises extracting target object methods by introspection.

6(Original). The method of Claim 1, wherein said target object is a managed object and said client application is a network management application.

7(Currently Amended). A remote access support mechanism at a client station for accessing a target object at a remote station via a telecommunications network, said remote access support mechanism comprising:

 a client object forming a representation of said target object, which client object ~~identifies~~ extracts methods of said target object which are accessible remotely and implements management methods for accessing said remotely accessible methods; and

a network adaptor responsive to said client object, wherein said client object is configured to be instantiated by a client application for enabling said client application to access and modify said target object.

8(Original). The remote access support mechanism of Claim 7, wherein said client object is compiled from a target object and comprises a target object interface identifying which methods of said target object are accessible remotely and a target object stub implementing said remotely accessible methods.

9(Original). The remote access support mechanism of Claim 8, wherein said target object stub is selectably replaceable for dynamically modifying the behaviour of said client application at runtime.

10(Original). The remote access support mechanism of Claim 9, wherein said client object is an object which comprises a set of properties, a set of methods for performing actions, and support for events and for introspection.

11(Original). The remote access support mechanism of Claim 10, wherein said client object and said target objects are each beans which comprises a set of properties, a set of methods for performing actions, and support for events and for introspection.

12(Original). The remote access support mechanism of Claim 11, comprising a compiler for extracting said target object methods by introspection for generating said client object.

13(Original). The remote access support mechanism of Claim 11, wherein said target object is a managed object and said client application is a network management application.

14(Original). The remote access support mechanism of Claim 13, comprising a software mechanism.

15(Currently Amended). A remote access support mechanism at a first machine permitting remote access and modification from a client machine to a target object at a first machine via a telecommunications network, said remote access support mechanism comprising:

at least one target object;

at least one network adaptor supporting a network protocol;

said at least one target object and said at least one network adaptor being registerable with a framework at said first machine and said network adaptor being responsive to remote access requests from said client machine in accordance with said protocol to extract target object methods access and modify said target object via said framework.

16(Original). The remote access support mechanism of Claim 15, comprising a software mechanism.

17(Currently Amended). A remote access support mechanism on a data carrier for a computer for permitting remote access and modification from a client machine to a target object at a first machine via a

telecommunications network, said remote access support mechanism comprising:

- at least one target object;

- at least one network adaptor supporting a network protocol;

- said at least one target object and said at least one network adaptor being registerable with a framework at said first machine and said network adaptor being responsive to remote access requests from said client machine in accordance with said protocol to extract target object methods access and modify said target object via said framework.

18(Currently Amended). A method of managing from a first virtual machine a target object at a second virtual machine where the target object includes features that can be manipulated programmatically by processes in the second virtual machine, the method comprising:

- registering the target object and a network adaptor for a network protocol with a framework at the second virtual machine;

- generating a client object on the first virtual machine forming a representation of the target object, which client object is configured to identify extract remotely accessible methods of the target object that support programmatic manipulation of target object properties by processes in the second virtual machine;

- associating said client object with the network adaptor for the network protocol at the first virtual machine; and

- enabling a client application to manage the target object by instantiating the client object.